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September 22, 2011



**Via Federal Express**

United States Environmental Protection Agency - East  
Attn: TSCA Section 8(e)  
Room 6428  
1201 Constitution Avenue, NW  
Washington, DC 20004

**Subject:** Notice in Accordance with Section 8(e): Results of a Range Finding Inhalation Study Covering Prenatal Developmental Toxicity in Time-Mated Female Wistar Rats with Cyclohexylvinylether (CAS No. 2182-55-0)

Dear Section 8(e) Coordinator:

BASF Corporation is submitting results of a Range Finding Inhalation Study Covering Prenatal Developmental Toxicity in Time-Mated Female Wistar Rats (CrI:WI(Han)) with Cyclohexylvinylether (CAS No. 2182-55-0), conducted by BASF SE, Ludwigshafen, Germany. The substance is an industrial chemical.

**The inhalation exposure and examination of local and systemic toxicity was carried out in accordance with the requirements of the international guideline:**

- **OECD Guidelines for Testing of Chemicals, Guideline 412**

The examination of prenatal and developmental toxicity was performed based on OECD Guideline No. 414.

**Scope of the Examination**

Groups of five time-mated female male rats were exposed nose-only to the vapor of cyclohexylvinylether for 6 hours per day on 14 consecutive days, from gestation day 6 through to gestation day 19. The target concentrations were 2000, 5000 and 10000 mg/m<sup>3</sup>. A concurrent control group was exposed to clean air. Daily clinical observations, body weight and food consumption were determined. At the end of the study, hematology of blood and histopathological examinations of the respiratory tract and liver were carried out. Uteri of the animals were weighed.

**The following is a summary of the most relevant results:**

Clinical signs of toxicity comprised apathy, unsteady gate and poor general condition at the high concentration group. Retarded (net) body weight development and reduced food consumption were observed at 5000 mg/m<sup>3</sup> and higher.

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The histopathological investigation revealed centrilobular hepatocellular degeneration, centrilobular hepatocellular hyperplasia and degeneration of the olfactory epithelium in level I and III of the nasal cavity. The incidence and severity of these findings are related to exposure concentration and were still present at the low concentration of 2000 mg/m<sup>3</sup>.

At cesarean section the uterus weight was significantly decreased in the high concentration group (10% of the control) and in the medium group (44% of the control).

BASF Corporation understands that reporting of the results from this study under TSCA 8(e) is in accordance with EPA's policy.

If you have any questions, please contact the undersigned at (973) 245-6693.

Sincerely,

*Janet Cerra*

Janet Cerra

Product Regulatory Center of Expertise

North America

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From: (973) 245-6693  
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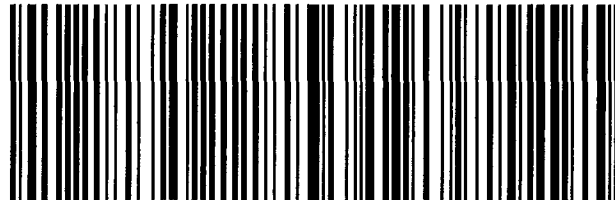
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